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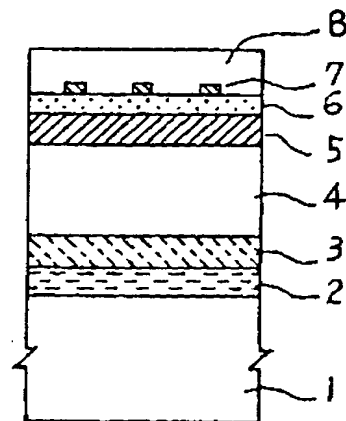
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TITLE : THIN-FILM SOLAR CELL



ABSTRACT : PURPOSE: To obtain a thin-film solar cell abounding with flexibility and having excellent optical conversion efficiency by using a specific biaxially oriented polyethylene-2,6-naphthalene dicarboxylate film as a flexible substrate.

CONSTITUTION: In a thin-film solar cell in which a photovoltage generating layer consisting of amorphous silicon is formed onto a flexible substrate, a biaxially oriented polyethylene-2,6-naphthalene dicarboxylate film 1, a thermal shrinkage factor thereof at 200°C extends over 2.0% or less in all directions-that is, 1.355~1.390g/cm<sup>3</sup> density, is employed as said substrate. The PEN film having such characteristics can be acquired by thermally treating a film obtained through a normal manufacturing process. 210~250°C, preferably, 230~245°C, are used as the temperature of heat treatment, and several sec ~ several min are used as the treatment time.

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